

LOGIC CARD RELAY AND LAMP DRIVER OUTPUT SIGNALS

Output Driver Function	Relay	Driver type	Edge Pin	TR	Rbase	R-18v	Rout	Cap	LED R
Ready Tape Lamp 1/2	-	C	51	6	RP1-3	-	R8	-	-
Ready Tape Lamp full	-	C	51	5	RP1-4	-	R7	-	-
Ready Group Lamp 1/2	-	C	52	8	RP1-1	-	R10	-	-
Ready Group lamp full	-	C	52	7	RP1-2	-	R9	-	-
Record Lamp 1/2	-	C	50	4	RP1-5	-	R6	-	RP5-7
Record Lamp full	-		50	3	RP1-6	-	R5	-	-
Record LED	-		18	4	RP1-5	-	-	-	-
Supercue T&G	RG 9	A	34	21	RP3-2	RP8-2	-	10	-
Supercue G	RG 8	A	35	20	RP3-3	RP8-3	-	9	-
Supercue T	RG 7	A	36	19	RP3-4	RP8-4	-	8	-
Monitor Selection T&G	RG 6	A	37	18	RP3-5	RP8-5	-	7	-
Monitor Selection G	RG 5	A	38	17	RP3-6	RP8-6	-	6	-
Monitor Selection T	RG 4	A	39	16	RP3-7	RP8-7	-	5	-
Monitor Cut	RG 3	A	33	22	RP3-1	RP8-1	-	11	-
Channel Cut	RC 4	A	27	26	RP4-5	RP9-4	-	17	-
Input Select Mic	RC 1	B	29	24	RP4-7	RP9-6	-	16	RP5-1
Input Select Line	RC 2	B	30	23	RP4-8	RP9-7	-	15	RP5-2
Input Select SubGroup	RC 3	A	28	25	RP4-6	RP9-5	-	12	-
Small fader Cut LED	-	D	55	1	RP1-8	-	R3	-	-
VCA fader Cut Lamp	-	E	54	2	RP1-7	-	R4	-	-
Meter Selection T	RG10	B-	42	13	RP2-1	RP7-3	-	-	RP5-5
Meter Selection G	RG11	B-	41	14	RP2-2	RP7-2	-	-	RP5-4
Meter Selection VCA	RG12	B-	40	15	RP2-3	RP7-1	-	-	RP5-3
Small Fader to Quad Bus	RG13	A-	26	27	RP4-4	RP9-3	-	13	-
VCA Fader to MT Routing	RC13								
VCA Fader to Quad Bus	RG14	B-	25	28	RP4-3	RP9-2	-	18	RP5-6
S. Fader to MT Routing									
Channel to VCA	RV15	A	44	11	RP2-5	RP7-5	-	3	-
Monitor to Small Fader	RG15								
Channel to Small Fader	RG16	A	43	12	RP2-4	RP7-4	-	4	-
Monitor to VCA Fader	RV16								
Group Output Slate	RG2	A	45	10	RP2-6	RP7-6	-	2	-
Group Output Mix	RG1	A	46	9	RP2-7	-	-	1	-
Record Relay	-	F	-	30	RP4-1	-	-	-	-

82E293 switch and link selection details

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Switches

	<u>On</u>	<u>Off</u>	<u>Normally</u>
SW1	3-wire tape remote (Contacts B+D linked)	4-wire tape remote	Off
SW2	Record readied in Ready Group or Tape + desk in Record status	Record readied in Ready Group or Tape	Off
SW3	Ready tally (Record lamp half bright) from machine contacts (C+D)	Ready tally from record switch	Off
SW4	Record tally (Record lamp full bright) from machine contacts (C+D)	Record tally from machine record bus	Off
SW5	Supercue on (pre-monitor cue send not cut by monitor cut)	Supercue off	On
SW6	Monitor listens to Tape monitor in Ready Tape	Monitor follows Record status in Ready Tape	Off
SW7	Record LED follows full bright lamp (track record)	Record LED follows half bright lamp (track readied)	Off
SW8	Sub-group in VCA to channel enables solo isolate	Solo isolate from switch only	Off

Links

		<u>Normally</u>
LK1	S1 pin 3 connected to master input cut defeat	Open
LK2	Edge pin 73 " " " " " "	Open
LK3	Edge pin 73 connected to channel in to meters	Fitted
LK4,5	Broadcast/input flip select	Input Flip
LK6	Inputs cut in channel cut (remove when used with 82E291 card fitted with channel in to meters option)	Open

82E293 SuperCue, Monitors & Meter Selection

SuperCue: This is the pre monitor fader signal feed to the Cue/Aux PRE switches.

DIL switch 5 on the card determines whether pre monitor fader sends are cut by monitor cut or not.

SW 5 ON SuperCue not cut by monitor cut (Normal state)
SW 5 OFF SuperCue cut by monitor cut

The feeds to the SuperCue, the monitor fader, and the meter, are from either the Tape monitor input, the Group monitor input, or from a mix of both. Which source feeds each of these depends on the setting of the 'Ready Tape' and 'Ready Group' switches, the desk master status, and whether the tape machine is dropped into record.

In addition, the source selection when 'Ready Tape' only is selected depends on the setting of DIL switch 6 on the card.

The tables below define these selections for the two settings of switch 6.

Switch 6 Off

	SuperCue Signal		Monitor Signal		Meter	Record or Mix Status
Dropped in?	No	Yes	No	Yes		
Ready G & T off	Tape	N/A	Tape	N/A	Tape	
Ready Tape	G + T	Group	Tape	Group	Tape	
Ready Group	Group	Group	Group	Group	Group	
Ready G & T	G + T	Group	G + T	Group	Group	
Replay Status	Tape	N/A	Tape	N/A	Tape	

contd

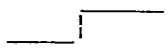
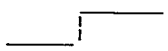
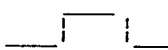
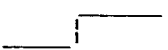
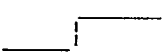
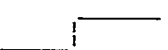
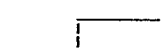
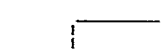
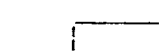
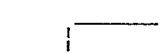
Switch 6 on

	SuperCue Signal		Monitor Signal		Meter	
Dropped in?	No	Yes	No	Yes		
Ready G & T off	Tape	N/A	Tape	N/A	Tape	Record or Mix Status
Ready Tape	Tape	Tape	Tape	Tape	Tape	
Ready Group	Group	Group	Group	Group	Group	
Ready G & T	G + T	Group	G + T	Group	Group	
Replay Status	Tape	N/A	Tape	N/A	Tape	

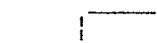
Master Status Bus Logic Inputs

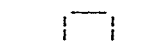
RECORD	Active high in Console Record Status. Active high in Console Mix Status.
MASTER READY GROUP	Option to switch all channels to RG on a master basis.
VCA TO MONITOR	Active high with VCA to MON AND (RECORD OR REPLAY)(NOT MIX) Status selected.
MACHINE RECORD BUS	Active high when Master Machine is in Transport Record or Drop in Rehearsal is operating.
MASTER INPUT FLIP	Active high when selected on 651. If configured for (BROADCAST) BROADCAST MODE by changing links on the 82E12s and the 82E21: RECORD AND BROADCAST = MIX AND MASTER INPUT FLIP
SLATE	Active high when OMNI or TONE TO GROUPS operated.
SOLO DISABLE BUS	Active high when AFL status is selected.
VCA FADER SOLO BUS	Active high when any channel VCA solo is operated.
SMALL FADER SOLO BUS	Active high when any Small fader solo is operated.
VCA TO METERS	Active high when function selected on 651.

Channel Status Logic Inputs

READY TAPE	
READY GROUP	
RECORD	
FLIP	
FLOAT	
SUBGROUP	
SMALL FADER SOLO	
SMALL FADER CUT	
VCA FADER SOLO	
VCA FADER CUT	

All active High.

 = Locking Switch Function.

 = Momentary Switch Function.

Channel Input Selection

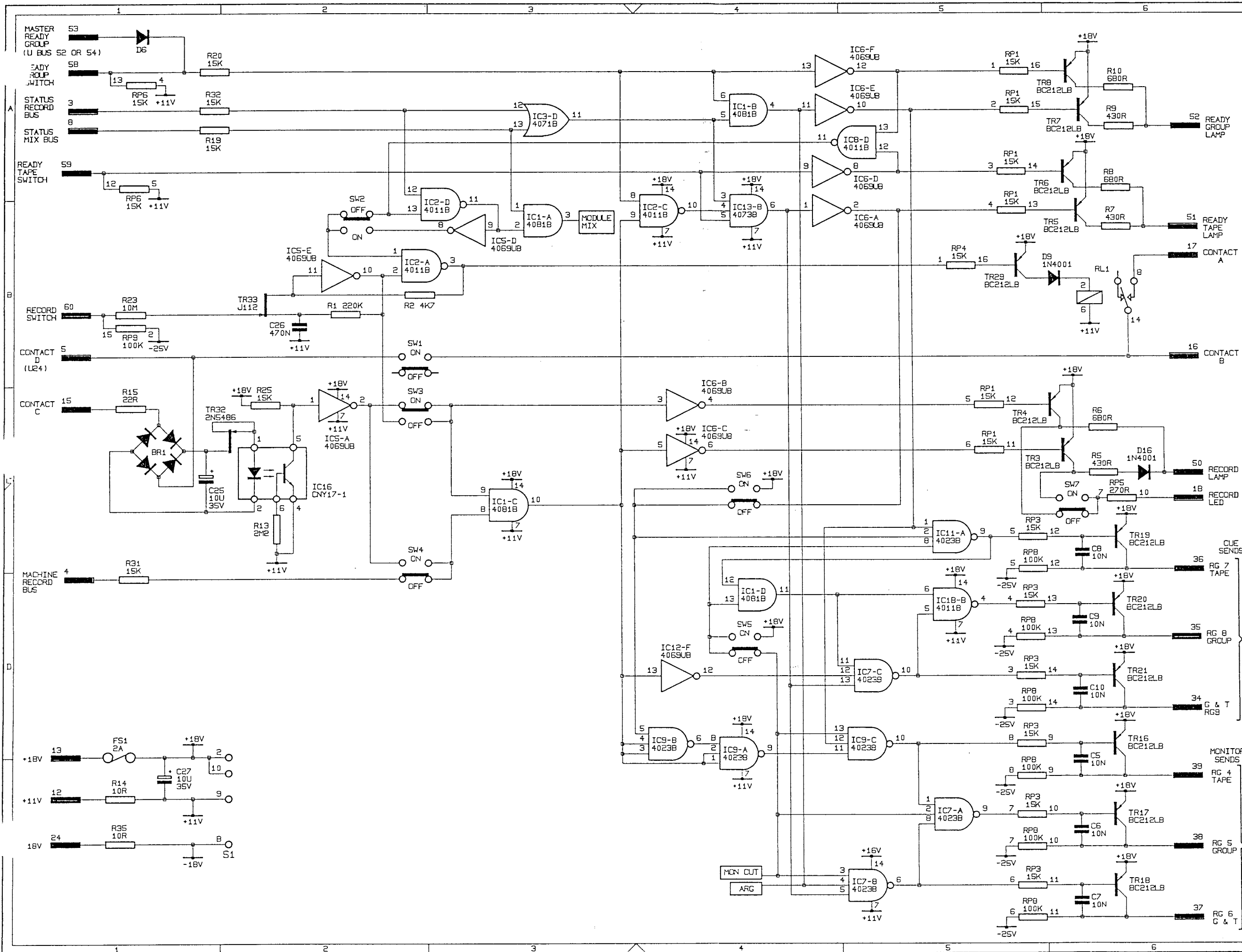
RC4 - Channel Input Cut FET. Takes priority over RC1, RC2 and RC3.
RC3 - Sub Group Input FET. Takes priority over RC1 and RC2.

RC2 - Line Input FET $\overline{1}$ _____ EXCLUSIVE OR function.
RC1 - Mic Input FET $\overline{1}$ _____

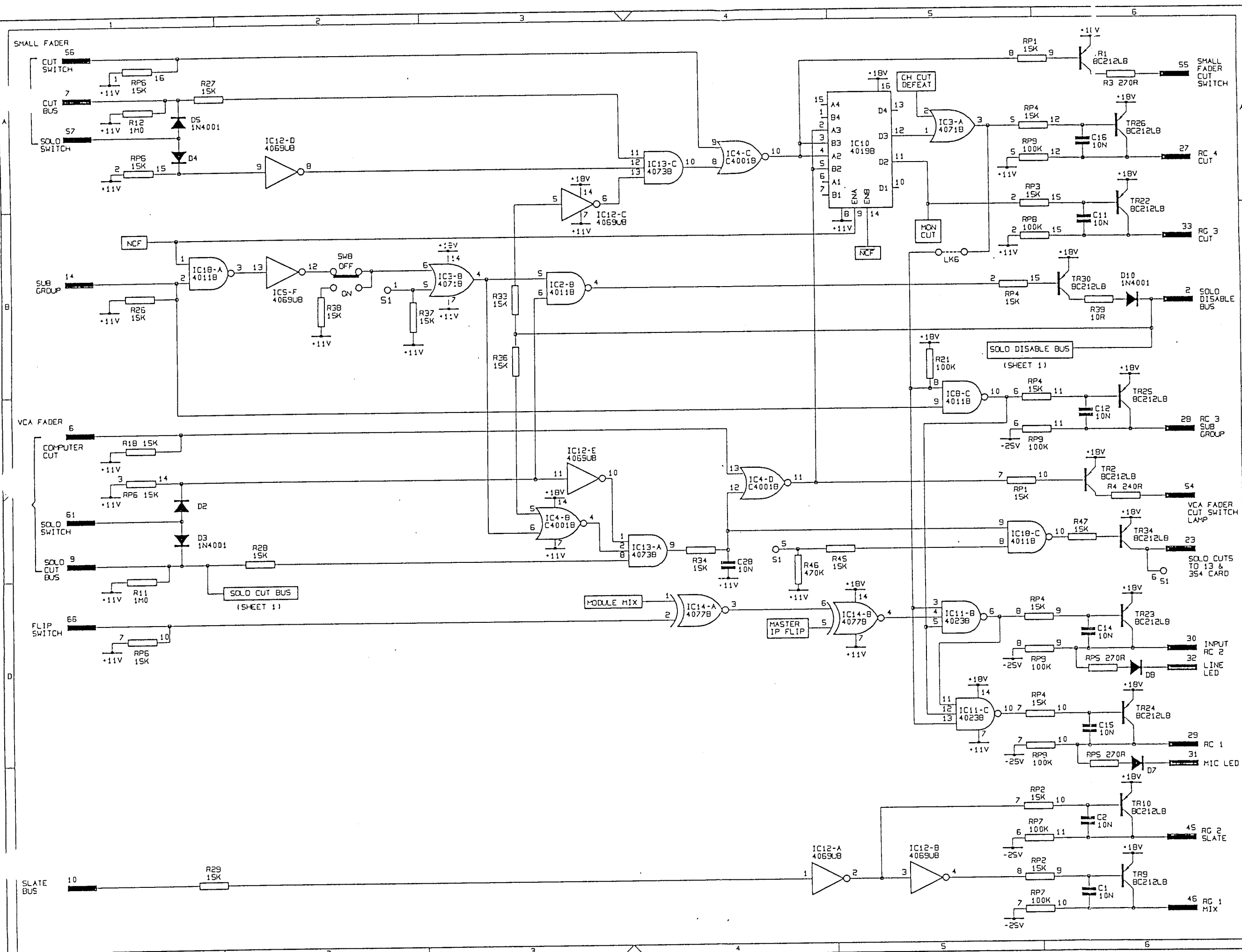
RC2 is active when MODULE MIX is high $\overline{1}$ _____ Except when the Flip
RC1 is active when MODULE MIX is low $\overline{1}$ _____ switch is operated.

82E293 - LOGIC CARD EDGE CONNECTOR			
From: 82E293			
To: 611G/V/E Mother Board			
No	Description	No	Description
1	VCAs to Meters Bus	37	RG6 Control o/p
2	Solo Disable Bus	38	RG5 Control o/p
3	Status Record Bus	39	RG4 Control o/p
4	Machine Record Bus	40	RG12 Control o/p
5	Record contact D. Sense common	41	RG11 Control o/p
6	VCA Fader Cut from 82E13 p23	42	RG10 Control o/p
7	Small Fader Solo Cut Bus	43	RG16, RV16 Control o/p
8	Status Mix Bus	44	RG15, RV15 Control o/p
9	VCA Fader Solo Cut Bus	45	RG2 Control o/p
10	Slate Control Bus	46	RG1 Control o/p
11	VCA to Monitor Bus	47	NP
12	+11v	48	NP
13	+18v	49	NP
14	Sub-Group switch input	50	Record Lamp
15	Record Contact C. Sense input	51	Ready Tape Lamp
16	Record Contact B. Relay Common	52	Ready Group Lamp
17	Record Contact A. Relay Contact	53	Master Ready Group Bus
18	Record LED	54	VCA Cut Lamp
19	Group LED	55	SF Cut LED
20	Tape LED	56	SF Cut Switch
21	VCA to Meter LED	57	SF Solo Switch
22	Key Way	58	Ready Group Switch
23	Solo Mute to Computer (Not Used)	59	Ready Tape Switch
24	-18v	60	Record Switch
25	RC14, RG14 Control o/p	61	VCA Solo Switch
26	RC13, RG13 Control o/p	62	Small Fader Routing LED
27	RC4 Control o/p	63	NP
28	RC3 Control o/p	64	NP
29	RC1 Control o/p	65	NP
30	RC2 Control o/p	66	Flip Switch
31	Mic LED	67	NP
32	Line LED	68	Float Switch
33	RG3 Control o/p	69	Float Switch
34	RG9 Control o/p	70	Spare to 611 Edge connector U53
35	RG8 Control o/p	71	Master input flip bus (broadcast)
36	RG7 Control o/p		

T82293.50
Dec 87



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REV	ISSUE	DATE	DETAILS
0	A	29 SEPT 87	NEW DRAWING STEFF
1	A		ECO 4K/317 INTRO PIGGY BACK RES PACK RP3-2 RP4-2 ADDED STEFF
2	A	18 MAR 88	ECO 4K/322 RP3-2 RP4-2 DELETED.C1-C17 WERE 100N NOW 10N STEFF
3	A	18 MAR 88	ECO 4K/324 ECO 4K/336 D16 ADDED STEFF
3	B	16 JUN 88	SW2 OFF WAS TO AM IC2 PIN 12 NOW 13 SW2 ON WAS OFF SW2 OFF WAS ON MM
4	A	20 MAR 90	ECO 4K/537 BC NO CHANGE STEFF
5	A	25 NOV 91	ECO 4K/891 BC D9 D16 WERE 1S44 NOW 1N4001 MM
SHEET 1 OF 3			
REF: T82293.71 A2			
TITLE SL611 G SERIES LOGIC CARD			
DRG. NO. T82293.71			
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REV	ISSUE	DATE	DETAILS
0	A	22 APR 93	NEW DRAWING MM
1	A	23 SEP 93	ECO 4K/1200 MM INTRODUCE EF PCB
SHEET 2 OF 3			
REF: T611M A2			
TITLE SL611E LOGIC CARD G. (E3 VERSION)			
DRG. NO. T82293.72.3			
Solid State Logic			